

## ABSTRACT

5 A "passive-active" mount includes an emanator-securement plate, a  
foundation-securement plate, at least one elastomeric "streamlined  
resilient element," and at least one collocated motion sensor-vibratory  
actuator pair. The mount brings to bear, sequentially and  
complementarily, passive vibration control followed by active vibration  
control. The passive vibration control is effectuated by one or more  
"streamlined resilient elements," each attributed with a "constant natural  
frequency" (CNF) property whereby such element is naturally predisposed  
to passively reducing vibration at a particular frequency band regardless of  
the extent of the loading, within certain limits, to which such element is  
being subjected. Cumulatively, the streamlined resilient element(s)  
passively reduce(s) the emanated vibration in CNF fashion before reaching  
15 the foundation-securement plate, whereupon the active vibration control is  
effectuated via one or more electrical feedback loops, each involving a  
processor/controller and a collocated sensor-actuator pair.